

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 885	5B-1	HARDIN	58	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		98648

**Illinois Department of Transportation**  
Division of Highways  
District Nine Materials

**SHELBY TUBE TEST RESULTS**

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Date 8/17/00

ROUTE FAP 885 DESCRIPTION FAP 885 (IL Rte 146) over Big Creek DRILLED BY Bryan Keller

SECTION 5B-1 LOCATION SE 14, SW 14, NW 14, SEC. 27, TWP. 12S, RNG. 8E, 3 PM

COUNTY Hardin STRUCT. NO. 035-0010 Station 280+80.00

BORING NO. A-3S Station 281+34 Ground Surface Elev. 326.1 ft Tube Length in Offset 23.00ft Lt. Begin Sampling Depth -0 ft Tube Diameter in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	(ft)	(no)	(pcf)	(tsf)	(%)	(psf)	(deg)	T
Augers Suspended	1							
Augers Suspended	2							
Augers Suspended	3							
Augers Suspended	4							
Medium, very moist, grey, Silty Clay A-6	5	128.0	0.81B	22.1				
No Recovery	6							
No Recovery	7							
No Recovery	8							
No Recovery	9							
Medium, very moist, grey, Silty Clay A-6	10	121.0	0.46B	29.2				
Medium, very moist, grey, Silty Clay A-6	11	119.0	0.62B	30.9				
Medium, very moist, grey, Silty Clay A-6	12	122.0	0.81B	30.3				
Medium, very moist, grey, Silty Clay A-6	13	129.0	0.6B	28.3				
No Recovery	14							
Medium, very moist, grey, Silty Clay A-6	15	122.0	0.86S	27.1				
Medium, very moist, grey, Silty Clay A-6	16	127.0	0.54B	29.6				
Triaxial	17	123.0		28.1	213	0.2		
Medium, very moist, grey, Silty Clay A-6	18	129.0	0.9B	23.9				
No Recovery	19							
Medium, vm, br m grey, Clay to Silty Clay A7-6	20	126.0		25.9				
Medium, vm, br m grey, Clay to Silty Clay A7-6	21	125.0	0.68B	25.0				
Medium, vm, br m grey, Clay to Silty Clay A7-6	22	126.0	1.03B	23.9				
No Recovery	23							
No Recovery	24							
Medium, v moist, brown, Clay to Silty Clay A7-6	25	125.0		25.6				
Medium, v moist, brown, Clay to Silty Clay A7-6	26	128.0	0.72B	23.7				

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample  
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)  
The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

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Medium, v moist, brown, Clay to Silty Clay A7-6	27	125.0	1.01S	23.8				
Medium, v moist, brown, Clay to Silty Clay A7-6	28	126.0	0.92S	24.4				
No Recovery	29							
Medium, v moist, brown, Silty Clay Loam A-6	30	131.0		27.2				
Medium, v moist, brown, Silty Clay Loam A-6	31	126.0	0.59B	25.2				
Medium, v moist, brown, Silty Clay Loam A-6	32	127.0	0.74B	24.4				
Medium, very moist, grey, Silty Clay A-6	33	125.0	1.05S	23.8				
No Recovery	34							
Stiff, very moist, br mottled gr, Silty Clay A-6	35	137.0		24.7				
Stiff, very moist, br mottled gr, Silty Clay A-6	36	129.0	1.49S	24.0				
Stiff, very moist, brown mottled grey, Clay A7-6	37	124.0	1.46S	26.3				
Stiff, very moist, brown mottled grey, Clay A7-6	38	128.0	1.65S	20.7				
Stiff, moist, grey, Silty Clay Loam A-4	39	133.0	1.33S	20.1				
Stiff, moist, grey, Silty Clay Loam A-4	40	131.0		26.2				
Stiff, moist, grey, Silty Clay Loam A-4	41	135.0	1.36S	22.7				
Stiff, very moist, grey, Silty Clay Loam A-6	42	127.0	1.24B	25.0				
Stiff, very moist, grey, Silty Clay Loam A-6	43	118.0		30.3				
No Recovery	44							
No Recovery	45							
No Recovery	46							
No Recovery	47							
No Recovery	48							
No Recovery	49							
Medium, very moist, grey, Silty Clay Loam A-4	50	131.0		24.6				
Medium, very moist, grey, Silty Clay Loam A-4	51	127.0	0.75S	24.4				
Medium, very moist, grey, Silty Clay Loam A-4	52	127.0	0.98B	24.7				

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample  
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SOIL TYPE, DESCRIPTION AND OBSERVATIONS	(ft)	(no)	(pcf)	(tsf)	(%)	(psf)	(deg)	T
Stiff, very moist, grey, Silty Clay A-6	53	128.0	1.44S	21.6				
Stiff, very moist, grey, Silty Clay A-6	54	133.0	2.07S	20.0				
Stiff, very moist, grey, Silty Clay A-6	55	127.0	1.12B	26.7				
Stiff, very moist, grey, Silty Clay A-6	56	130.0	1.74S	23.5				
Stiff, very moist, grey, Clay A7-6	57	133.0	1.12S	21.4				
Stiff, very moist, grey, Clay A7-6	58	122.0	1.97B	24.8				
No Recovery	59							
Medium, very moist, grey, Silty Clay Loam A-6	60	128.0	0.78B	24.4				
Medium, very moist, grey, Silty Clay Loam A-6	61	124.0	0.55S	29.4				
Very soft, very moist, grey, Silty Clay Loam A-6	62	116.0	0.2B	32.6				
Very soft, very moist, grey, Silty Clay Loam A-6	63	115.0	0.19B	30.9				
Stiff, very moist, grey, Silty Clay Loam A-6	64	124.0	1.72S	28.8				
Stiff, very moist, grey, Silty Clay Loam A-4	65	123.0	1.02S	29.7				
Stiff, very moist, grey, Silty Clay Loam A-4	66	129.0	1.63S	26.4				
Triaxial	67	127.0		26.8	1360	3		
Stiff, very moist, grey, Silty Clay Loam A-6	68	126.0	2.46S	26.5				
Stiff, very moist, grey, Silty Clay Loam A-6	69	125.0	1.62S	27.6				
Stiff, very moist, grey, Silty Clay Loam A-6	70	129.0	1.8S	27.3				
Stiff, very moist, grey, Silty Clay Loam A-6	71	124.0	1.49S	29.2				
Stiff, very moist, grey, Silty Clay Loam A-6	72	122.0	1.91S	29.2				
Stiff, very moist, grey, Silty Clay Loam A-4	73			28.7				
Stiff, very moist, grey, Silty Clay Loam A-4	74	124.0	1.05S	26.8				
Stiff, very moist, grey, Silty Clay Loam A-4	75			29.1				
Stiff, very moist, grey, Silty Clay Loam A-4	76			28.3				
Stiff, very moist, grey, Silty Clay Loam A-4	77	128.0	2.27S	26.6				
Stiff, very moist, grey, Silty Clay Loam A-4	78	124.0	1.71S	27.7				

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SOIL TYPE, DESCRIPTION AND OBSERVATIONS	(ft)	(no)	(pcf)	(tsf)	(%)	(psf)	(deg)	T
Stiff, very moist, grey, Silty Clay Loam A-4	79	126.0	1.56S	27.8				
Stiff, very moist, grey, Silty Clay Loam A-4	80	123.0		29.1				
Stiff, very moist, grey, Silty Clay Loam A-4	81	125.0	1.27S	28.6				
Stiff, very moist, grey, Silty Clay Loam A-4	82	124.0	1.04S	27.5				
Stiff, very moist, grey, Silty Clay Loam A-4	83	122.0	1.06S	26.8				
Stiff, very moist, grey, Silty Clay Loam A-4	84	124.0	1.26S	28.1				

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**BORING LOGS**  
**F.A.P. ROUTE 885 - SECTION 5B-1**  
**HARDIN COUNTY**  
**STATION 280+80.00**  
**STRUCTURE NO. 035-0014**